

Title (en)

METHOD FOR PRODUCING CALCIUM CARBONATE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON KALZIUMKARBONAT

Title (fr)

PROCEDE DE PRODUCTION DE CARBONATE DE CALCIUM

Publication

EP 1256549 A4 20050105 (EN)

Application

EP 01901395 A 20010117

Priority

- JP 0100269 W 20010117
- JP 2000008953 A 20000118

Abstract (en)

[origin: EP1256549A1] method for producing the calcium carbonate having aragonitic crystal form and being useful as a filler for paper in a causticizing step of a pulp-making process using the sulfate method or the soda method, which comprises adding with stirring, to caustic lime and/or slaked lime, an alkaline aqueous solution containing a carbonate ion in an amount of 0.25 mole or less relative to 1 mole in terms of caustic lime and having a hydroxyl ion concentration of 3 mole/liter or less so as for the resulting mixture to have a caustic lime concentration of 1 to 60 wt %, to thereby prepare a lime milk, adding a green liquor to the lime milk at a rate of 0.002 to 0.12 g (sodium carbonate)/min/g (caustic lime) at a reaction temperature of 30 to 105 DEG C, to carry out a causticizing reaction. The method allows taking advantage of a causticizing step for producing the calcium carbonate having aragonite crystal form which can impart improvements in bulkiness, whiteness, non-transparency, resistance to wire wear and yield in papermaking.

IPC 1-7

C01F 11/18; D21H 19/38; D21H 17/67

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- No further relevant documents disclosed
- See references of WO 0153203A1

Cited by

WO2014164738A3; US9975100B2; WO2015179222A1; US9637393B2; US10519041B2; US11014823B2; US11667538B2

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